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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE FOREST PRODUCTS LABORATORY MADISON, WIS.

In Cooperation with the University of Wisconsin

LIST OF PUBLICATIONS ON

PACKAGING

(BOXES, CRATES, CONTAINERS, AND PALLETS)

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Forest Service, U.S. Department of Agriculture, Post Office Box 5130, Madison, Wis. 53705. Classroom quantities are not available because of limited printing and storage facilities.

Title	Author	Publication and date
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WOOD BOXES AND CRATES

Wood crate design manual.	: Anderson, L. O., & : Heebink, T. B.	: USDA Handb. No. 252, : 131 pp. 1964.
Properties of ordinary wood compared with plywood.	: Forest Products : Laboratory	: FPL Tech. Note 131. : Rev. 1962.

NAILED-WOOD BOXES

Preservative treatments for protecting wood boxes.	: Verrall, A. F., & : Scheffer, T. C.	: USDA For. Serv. Res. : Pap. FPL 106. 1969.
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Title	Author	Publication and date
<u>CORRUGATED AND SOLID FIBERBOARD BOXES</u>		
Repeated recycling of corrugated containers and its effect on strength properties.	Koning, J. W., Jr. & Godshall, W. D.	Tappi 58(9):146-150. 1975.
Waste newspapers can be fiber source for corrugating medium.	Koning, J. W., Jr.	Paper Trade J. 159(16): 63. 1975.
Thermal resistance of corrugated fiberboard.	Ramaker, T. J.	Tappi 57(6):69-72. June 1974.
Papermaking factors that influence the runnability of corrugating medium.	Koning, J. W., Jr. & Fahey, D. J.	Tappi 57(6):65-68. June 1974.
Corrugating medium from household trash.	Mohaupt, A. A., & Koning, J. W., Jr.	Tappi 57(11):56-58. Nov. 1974.
Vibration transmissibility characteristics of corrugated fiberboard.	Godshall, W. D.	USDA For. Serv. Res. Pap. FPL 211. 1973.
Shock cushioning by corrugated fiberboard pads to centrally applied loading.	Stern, R. K., & Jordan, C. A.	USDA For. Serv. Res. Pap. FPL 184. 1973.
Method for measuring and controlling web tension of corrugating medium during single facing.	Godshall, W. D., & Koning, J. W., Jr.	USDA For. Serv. Res. Note FPL-0219. 1972.
Development of basic information for the design of paper shipping sacks.	Chern, J., & Kuenzi, E. W.	Tappi 55(10):1477-1481. Oct. 1972.
Improving comparability of paperboard test results: Using flexible and rigid type testing machines.	Koning, J. W., Jr., Kuenzi, E. W., Moody, R. C., & Godshall, W. D.	Tappi 55(5):757-760. May 1972.
How variations in corrugated-pad composition affect cushioning.	Stern, R. K.	Packaging Eng. 1971.
Method for recording machine speed at which corrugating medium is fluted.	Koning, J. W., Jr. & Godshall, W. D.	USDA For. Serv. Res. Note FPL-0216. 1971.

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CORRUGATED AND SOLID FIBERBOARD BOXES

Frequency response, damping, and transmissibility characteristics of top-loaded corrugated containers.	Godshall, W. D.	USDA For. Serv. Res. Pap. FPL 160. 1971.
Measuring linerboard thickness and flute height of corrugated fiberboard.	Koning, J. W., Jr.	Tappi 54(2):236-238. Feb. 1971.
Effects of relative humidity and temperature on tensile stress-strain properties of kraft linerboard.	Benson, R. E.	Tappi 54(5):699-703. May 1971.
Predicting flexural stiffness of corrugated fiberboard.	Koning, J. W., Jr. & Moody, R. C.	Tappi 54(11):1879-1881. Nov. 1971.
Hygroexpansivity of corrugated.	Koning, J. W., Jr.	App. Tech. Art. Pap. Pack.:50, 51. Oct. 1970.
Effect of glue skips on corrugated fiberboard container compressive strength.	Koning, J. W., Jr. & Moody, R. C.	Tappi 52(10):1910-1915. Oct. 1969.
Testing corrugated corner pads.	Jordan, C. A.	Modern Pack. Sept. 1969.
Now you can easily check your corrugated box adhesive's water resistance.	Koning, J. W., Jr.	Package Eng. Aug. 1969.
Flat-crush cushioning capability of corrugated fiberboard pads under repeated loading.	Stern, R. K.	USDA For. Serv. Res. Note FPL-0183. 1968.
Tests show corrugated pads' performance as cushioning.	Stern, R. K.	Package Eng. Feb. 1968.
Effects of vertical dynamic loading on corrugated fiberboard containers.	Godshall, W. D.	USDA For. Serv. Res. Pap. FPL 94. 1968.

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CORRUGATED AND SOLID FIBERBOARD BOXES

Effectiveness of chemical treatments in improving the wet compressive strength of container-grade solid fiberboard.	Moody, R. C.	USDA For. Serv. Res. Note FPL-0166. 1967.
Slip pads, vertical alignment increase stacking strength 65%.	Koning, J. W., Jr. & Moody, R. C.	Boxboard Containers 85(888):56-59. Nov. 1966.
How dead load, downward creep influence corrugated box design.	Moody, R. C., & Skidmore, K. E.	Package Eng. 11(8): 75-81. Aug. 1966.
Effect of loading rate on the edgewise compressive strength of corrugated fiberboard.	Moody, R. C., & Koning, J. W., Jr.	USDA For. Serv. Res. Note FPL-0121. 1966.
Fiberneer....development, production, and evaluation.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 52. 1966.
Edgewise compressive strength of corrugated fiberboard as determined by local instability.	Moody, R. C.	USDA For. Serv. Res. Pap. FPL 46. 1965.
Comparison of two specimen shapes for short column test of corrugated fiberboard.	Koning, J. W., Jr.	USDA For. Serv. Res. Note FPL-0109. 1965.
Dynamic tension testing equipment for paperboard and corrugated fiberboard.	Godshall, W. D.	USDA For. Serv. Res. Note FPL-081. 1965.
Phenolic resin treatment improves fiberboard compressive strength.	Koning, J. W., Jr. & Fahey, D. J.	Package Eng. 10(10): 130-139. Oct. 1965.

PALLETS

Wood-base panel products for pallet decks.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 273. 1976.
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Title	Author	Publication and date
<u>PALLETS</u>		
Staple and nail assembled pallets under impact loading.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 272. 1975.
How pallets with laminated red oak deckboards performed in use.	Kurtenacker, R. S.	USDA For. Serv. Gen. Tech. Rep. FPL-4. 1975.
Increasing resistance of wood pallets to handling impacts.	Stern, R. K.	USDA For. Serv. Res. Pap. FPL 258. 1975.
Pallet research at the U.S. Forest Products Laboratory.	Kurtenacker, R. S.	Southern Lumberman 227(2824):110-111. Dec. 15, 1973.
Adhesives for pallets.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 209. 1973.
Evaluation of methods of assembling pallets.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 213. 1973.
Appalachian hardwoods for pallets: Correlation between services and laboratory test- ing.	Stern, R. K., & Dunmire, D. E.	USDA For. Serv. Res. Pap. FPL 169. 1972.
Rapid production of pallet deckboards from low-grade logs.	Hann, R. W., Jokerst, R. W., Kurtenacker, R. S., Peters, C. C., & Tschernitz, J. L.	USDA For. Serv. Res. Pap. FPL 154, 16 pp. 1971.
Wood pallet manufacturing.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-0213. 1971.
Appalachian hardwoods for pallets: Effect of fabrica- tion variables and lumber characteristics on perform- ance.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 112. 1969.
Appalachian hardwoods for pallets--a laboratory evaluation.	Kurtenacker, R. S., Heebink, T. B., & Dunmire, D. E.	USDA For. Serv. Res. Pap. FPL 76. 1967.

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PALLETS

Some observations of plywood pallets in use.	Heebink, T. B.	USDA For. Serv. Res. Note FPL-096. 1965.
Suitability of seven West Coast species for pallets.	Heebink, T. B.	USDA For. Serv. Res. Pap. FPL 22. 1965.

FASTENERS

Performance of nailed cleats in blocking and bracing applications.	Kurtenacker, R. S., & Godshall, W. D.	USDA For. Serv. Res. Note FPL-0200. 1968.
Effects of various preservatives of field boxes on nail holding.	Scholten, John A.	USDA For. Serv. Res. Pap. FPL 42. 1965.
Nail withdrawal resistance of American woods.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-093. 1965.
Performance of container fasteners subjected to static and dynamic withdrawal.	Kurtenacker, R. S.	USDA For. Serv. Res. Pap. FPL 29. 1965.
Strength of wood joints made with nails, staples, or screws.	Scholten, John A.	USDA For. Serv. Res. Note FPL-0100. 1965.
Nailing dense hardwoods.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-037. 1964.

CUSHIONING MATERIALS

Cushioning performance of multilayer corrugated fiberboard pads loaded at center only.	Jordan, C. A.	USDA For. Serv. Res. Pap. FPL 136. 1970.
Effect of atmospheric moisture content upon shock cushioning properties of corrugated fiberboard pads.	Stern, R. K.	USDA For. Serv. Res. Pap. FPL 129. 1970.

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CUSHIONING MATERIALS

Container effects in cushioned packages: Urethane foam corner pads.	Jordan, C. A.	USDA For. Serv. Res. Pap. FPL 109. 1969.
Cushioning properties of five-layer corrugated fiberboard pads: Load applied to central area only.	Jordan, C. A.	USDA For. Serv. Res. Pap. FPL 116. 1969.
FPL dynamic compression testing equipment for testing package cushioning material.	Stern, R. K.	USDA For. Serv. Res. Note FPL-067. 1964.

TESTING OF CONTAINERS AND PACKAGING MATERIALS

Tests give film barriers the air show how well they do.	Mohaupt, A. A.	Package Eng. 13(12): 80-84. Dec. 1968.
New tests probe cushioning properties of corrugated board.	Jordan, C. A., & Stern, R. K.	Package Eng. 10(12): 76-94. Dec. 1965.

GENERAL

Secondary fiber research at the Forest Products Laboratory.	Klungness, J. H.	Tappi 58(10):128-131. 1975.
What are the effects of recycling on fiber and paper properties?	Horn, R. A.	Pap. Trade J. 159(7/8): 78-82. 1975.

For information relative to methods of testing packages, containers, or packaging material, consult

American Society for Testing and Materials
1916 Race Street
Philadelphia, Pa. 19103

Technical Association of the Pulp & Paper Industry
One Dunwoody Park
Atlanta, Ga. 30341

Federal Standard No. 101, "Preservation, Packaging and Packing Materials Test Procedures," may be purchased from General Services Administration, Business Service Center, Washington, D.C. 20405.
